

REMARKS

The Advisory Action rejected Claims 1, 2, 6-11, 14-25, 28-44, 47-53 and 55-68.

The Advisory Action objected to Claims 3-5, 12, 13, 26, 27, 45, 46 and 54. Applicants have canceled Claims 1, 2, 6-11, 14-25, 28-44, 47-53 and 55-68. Applicants also amended Claims 3, 12, 26 and 45 to include the limitations of the corresponding base claims. Accordingly, properly amended objected to Claims 3-5, 12, 13, 26, 27, 45, 46 and 54 are in this application. Accordingly, the present application is now in condition for allowance with Claim 3-5, 12, 13, 26, 27, 45, 46 and 54.

If the Examiner wishes to direct any questions concerning this application to the undersigned Applicants' representative, please call the number indicated below.

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Respectfully submitted,



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MARKED-UP CLAIMS

3. A method for transmitting a data block over a network from a first sending node to a first set of recipient nodes, comprising:

in the first sending node:

dividing the first set of recipient nodes into a subset of selected nodes, selected according to scoring criteria associated with each recipient node, and a subset of unselected nodes;

assigning at least one of the unselected nodes to at least one selected node according to scoring criteria associated with the respective selected nodes;

transmitting to each selected node a packet having a payload including the data block and a first list of the nodes assigned to the selected node, the list dynamically associating the selected node with the unselected nodes for the transmission of the data block to the unselected nodes;

[The method of claim 1,] further [comprising:] in at least one recipient node:

receiving from the first sending node the packet having a payload including the data block and the first list of assigned nodes;

dividing the first list of assigned nodes into a subset of selected assigned nodes, selected according to scoring criteria associated with each assigned node, and a subset of unselected assigned nodes;

reassigning each of the unselected assigned nodes to at least one selected assigned node according to the scoring criteria associated with the respective selected assigned nodes; and

transmitting to each selected assigned node a packet having a payload including the data block and a list of the nodes reassigned to the selected assigned node, the list dynamically associating the selected node with the unselected nodes for the transmission of the data block to the unselected nodes.

12. A method for transmitting a data block over a network from a first sending node to a first set of recipient nodes, comprising:

in the first sending node:

dividing the first set of recipient nodes into a subset of selected nodes, selected according to scoring criteria associated with each recipient node, and a subset of unselected nodes;

assigning at least one of the unselected nodes to at least one selected node according to scoring criteria associated with the respective selected nodes;

transmitting to each selected node a packet having a payload including the data block and a first list of the nodes assigned to the selected node, the list dynamically associating the selected node with the unselected nodes for the transmission of the data block to the unselected nodes;

[The method of claim 1, further comprising:]

in a second sending node, which is also in the first set of recipient nodes:

dividing a second set of recipient nodes into a subset of selected nodes, selected according to scoring criteria associated with each recipient node, and a subset of unselected nodes;

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assigning each of the unselected nodes from the second set of recipient nodes to at least one selected node from the second set of recipient nodes according to scoring criteria associated with the respective selected nodes; and transmitting to each selected node from the second set of recipient nodes a packet having a payload including the data block and a second list of the nodes assigned to the selected node, the list dynamically associating the selected node with the unselected nodes for the transmission of the data block to the unselected nodes.

26. A computer program product residing on a computer readable medium comprising instructions for causing a particular network node, connected to a network having a plurality of network nodes, to:

create a first set of recipient nodes from among the plurality of network nodes;

divide the first set of recipient nodes into a subset of selected nodes, selected according to scoring criteria associated with each recipient node, and a subset of unselected nodes;

assign at least one of the unselected nodes to at least one selected node according to scoring criteria associated with the respective selected nodes;

transmit to each selected node a packet having a payload including a data block and a list of the nodes assigned to the selected node, the list dynamically associating the selected node with the unselected nodes for the transmission of the data block to the unselected nodes;

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[The product of claim 24, further comprising instructions for causing the particular network node to]

receive from one of the network nodes a packet having a payload
including a data block and a list of assigned nodes;

divide the received list of assigned nodes into a subset of selected assigned nodes, selected according to scoring criteria associated with each assigned node, and a subset of unselected assigned nodes;

reassign each of the unselected assigned nodes to at least one selected assigned node according to the scoring criteria associated with the respective selected assigned nodes; and

transmit to each selected assigned node a packet having a payload
including the received data block and a list of the nodes reassigned to the selected assigned node, the list dynamically associating the selected node with the unselected nodes for the transmission of the data block to the unselected nodes.

45. A system for transmitting data comprising:

a data network;

a plurality of network nodes, including at least one sending node; wherein each sending node is programmed to:

create a first set of recipient nodes from among the plurality of network nodes;

divide the first set of recipient nodes into a subset of selected nodes, selected according to scoring criteria associated with each recipient node, and a subset of unselected nodes;

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assign at least one of the unselected nodes to at least one selected node
according to scoring criteria associated with the respective selected nodes;
transmit to each selected node a packet having a payload including a data
block and a list of the nodes assigned to the selected node, the list dynamically
associating the selected node with the unselected nodes for the transmission of the
data block to the unselected nodes;

[The system of claim 43, wherein at least one of the plurality of network nodes is
programmed to:]

receive from one of the network nodes a packet having a payload
including a data block and a list of assigned nodes;
divide the list of assigned nodes into a subset of selected assigned nodes,
selected according to scoring criteria associated with each assigned node, and a
subset of unselected assigned nodes;
reassign each of the unselected assigned nodes to at least one selected
assigned node according to the scoring criteria associated with respective selected
assigned nodes; and
transmit to each selected assigned node a packet having a payload including the received
data block and a list of the nodes reassigned to the selected assigned node, the list
dynamically associating the selected node with the unselected nodes for the transmission
of the data block to the unselected nodes.

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